

PROJECT DESCRIPTION

I. General

This project involves the installation of a new traffic control signal and geometric improvements at the intersection of MD 2/4 (Solomons Island Road) at MD 765 and Calvert Cliffs Parkway in Calvert County, Maryland. MD 2/4 is assumed to run in a north-south direction.

II. Intersection Operation

This intersection is proposed to operate in a fully actuated mode with Southbound MD 2/4 left turn lane operating as an permitted / exclusive phase. Southbound MD 2/4 thru lanes will be unaffected by the signal operation. Northbound MD 2/4 and Westbound Calvert Cliffs Parkway will operate in exclusive phase each.

A NEMA eight (8) phase, full traffic actuated controller with intersection control monitor and Two (2) four-channel rack mounted loop detector amplifiers with time delay output housed in a base mounted (size 6) cabinet shall be installed at this intersection.

III. Special Notes

1.) Maintenance of traffic will be handled by the contractor utilizing the following standard plates for traffic control: 104.00-13, 104.00-19, 104.00-21 - 104.00-24, 104.17-01, 104.37-01, 104.38-01, 104.48-01, 104.81-02.

2.) The following contact persons for District #5 are as follows:

Mr. Paul Armstrong District Engineer Phone # (410) 841-5450
Mr. Lawrence Elliott Asst. District Engineer - Traffic Phone # (410) 841-5450

Mr. Chuck George Asst. District Engineer - Maintenance Phone # (410) 841-5450
Mr. John Mays Asst. District Engineer - Utility Phone # (410) 841-5450

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone # (410) 787-7630

3.) Upon completion of this project, the contractor shall contact Mr. Robert Snyder of the MD-SHA at (410) 787-7635 to arrange for the telephone line installation. The contractor shall provide Mr. Snyder with the nearest street address, zip code and phone number.

EQUIPMENT LIST

A. Equipment to be supplied by the Administration.

ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
9001	5	EA	814	12 in. 1 way 3 section (R,Y,G) signal head mast arm mount.
9002	2	EA	814	12 in. 1 way 3 section (RA,YA,GA) signal head-pedestal mount.
9003	1	EA	814	12 in. 1 way 3 section (RA,YA,GA) optically programed signal head -pole mount.
9004	1	EA	816	Eight-phase (fully actuated controller and cabinet) with intersection monitor and battery back-up - base mount.
9005	2	EA	xxx	Four-channel loop detector amplifier (delayed output)
9006	156	SF	813	Sheet aluminum signs consisting of:
	2	EA	xxx	D3-2 (var x 16 in.) - mast arm mount
	1	EA	xxx	D3-2 (var x 32 in.) - mast arm mount
	1	EA	xxx	R3-2 (mod) (30" x 30") -mast arm mount

EQUIPMENT LIST (con't)

A. Equipment to be supplied by the Administration.

ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
	1	EA	xxx	R3-5(L) (30" x 36") -mast arm mount
	1	EA	xxx	R3-5(R) (30" x 36") -mast arm mount
	1	EA	xxx	R6-1 (R) (24" x 48") - ground mount
	1	EA	xxx	R10-6C (60" x 36") - pole mount
	1	EA	xxx	R4-7 A (30" x 24") - pole mount
	1	EA	xxx	R4-7 (36" x 48") - ground mount
	1	EA	xxx	R1-2 (36" x 36" x 36") - ground mount
	1	EA	xxx	W4-1 (L) (36" x 36") - ground mount
	1	EA	xxx	Special Sign,(36"x42") NOTICE - TRAFFIC FROM RIGHT DOES NOT STOP - ground mount
	1	EA	xxx	W3-3 (36"x36") - ground mount
	1	EA	xxx	W3-3 (48"x48")
	1	EA	xxx	R3-2 (mod) (24"x24") - ground mount

EQUIPMENT LIST

B. Equipment to be Furnish and/or Installed by the Contractor

ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
1001	1	EA	104	Maintenance of Traffic per assignment
2001	4	CY	205	Test pit excavation
2004	85	CY	201	Class 2 excavation
5001	1500	LF	555	6 in. yellow permanent preformed pavement marking tape
5002	1700	LF	555	6 in. white permanent preformed pavement marking tape
5003	380	LF	555	12 in. white permanent preformed pavement marking tape
5004	60	LF	555	24 in. white permanent preformed pavement marking tape
5013	2000	LF	xxx	Remove existing pavement markings - any width
6001	455	SF	610	4 in. concrete sidewalk
6002	112	LF	609	Standard Type A combination curb and gutter 12 in. gutter pan, 8 in. depth
6009	137	LF	609	Monolithic concrete median 4 ft. 0 in. wide type A-1
8001	9	CY	801	Furnish and install concrete for signal foundation
8011	8	EA	814	Install signal head (ANY TYPE)
8016	3	EA	SP	Furnish and Install mirolloop probe set with 500 ft. lead-in.
8020	1	EA	816	Install controller and cabinet- base mount
8021	300	LF	815	Furnish and install saw cut for signal (loop detector)

EQUIPMENT LIST (con't)

B. Equipment to be Furnish and/or Installed by the Contractor


ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
8023	25	LF	805	Furnish and install 1 in. liquid tight flexible non-metallic conduit for detector sleeve
8024	620	LF	805	Furnish and install 2 in. schedule 80 rigid PVC conduit- -trenched
8029	240	LF	805	Furnish and install 3 in. schedule 80 rigid PVC conduit- -bored
8030	80	LF	805	Furnish and install 4 in. schedule 80 rigid PVC conduit- -trenched
8033	9	EA	811	Furnish and install electrical handhole
8034	4	EA	804	Furnish and install ground rod- 3/4 in. diameter x 10 ft. length
8040	1000	LF	810	Furnish and install loop wire encased in flexible tubing (No. 14 AWG)
8041	480	LF	810	Furnish and install electrical cable - 2 conductor (Aluminum Shielded)
8044	80	LF	810	Furnish and install electrical cable - 5 conductor (No. 14 AWG)
8045	700	LF	810	Furnish and install electrical cable - 7 conductor (No. 14 AWG)
8049	390	LF	810	Furnish and install No. 6 AWG stranded bare copper ground wire
8050	300	LF	810	Furnish and install electrical cable 1 - conductor No. 4 AWG - THHN/THWN
8051	120	LF	812	Furnish and install wood sign supports 4 in. x 4 in.
8053	103	SF	813	Install ground mounted sign
8054	53	SF	813	Install overhead sign
8064	1	EA	SP	Use existin plan or disk and as-built traffic control device
8070	1	EA	807	Furnish and install control and distribution equip(120/240V, 1 phase 3 wire syst)
8081	1	EA	821	Furnish and install mast arm pole and 38 ft. mast arm
8084	1	EA	SP	Furnish and install mast arm pole and 70 ft. mast arm

EQUIPMENT LIST (con't)

B. Equipment to be Furnish and/or Installed by the Contractor

ITEM NO.	QUANTITY	UNITS	SPECIFICATION SECTION	DESCRIPTION
Neg.	2280	LF		Full depth sawcut.
Neg.	35	CY		Removal of existing pavement.
Neg.	20	TON		Hot mix asphalt surface SC.
Neg.	70	TON		Hot mix asphalt base BC.
Neg.	230	SY		6' base course using graded aggregate.
Neg.	392	LF		Standard type B curb and gutter combination.
Neg.	300	SY		Replace topsoil 4" depth.
Neg.	300	SY		Strawmulching.
Neg.	300	SY		Seeding median areas.
Neg.	29	EA		Flex post.
Neg.	1	EA	821	Furnish and install 14 ft. breakaway pedestal pole.
Neg.	30	LF	805	Furnish and install 2 in. PVC schedule 80 electrical conduit riser.

REVISIONS	APPROVALS
	ASST. DIVISION CHIEF, TEDD
	ASST. DISTRICT ENGINEER, TRAFFIC
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 2/4 (SOLOMONS ISLAND RD) @ MD 765 CALVERT CLIFF PARKWAY
GENERAL INFORMATION 2 OF 2

LOGMILE #:04000209.32
DATE 7/24/97

DRAWN BY: J. ALLEN Jr.
CHECK BY: N.T.S.
SCALE:

F.A.P. NO. AC-STPG-0005(590)E
S.H.A. NO. AW279454/854
COUNTY CALVERT

PLAN SHEET NO.: 3652
SHEET NO. 6 OF 7